DialogClassic Web(tm)

DIALOG(R) File 324: German Patents Fulltext

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0002036133

10/538055 Page 1 of 1

JC17 Rec'd PCT/PTO 08 JUN 2005

KETTENFOERDERER

Patent and Priority Information (Country, Number, Date):

Patent:

DE 8408857 U1 19840719

DE 8408857 19840322 Application:

Priority Application: DE 8408857 U 19840322 (DE 8408857)

Main International Patent Class: B65G-021/16

Publication Language: German

Fulltext not yet available

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DialogClassic Web(tm)
DIALOG(R) File 348: EUROPEAN PATENTS
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00173751
Magnetic bend segment for a chain conveyor.
Magnetisches Bogenstuck fur Kettenforderer.
 Segment magnetique pour transporteur a chaine.
PATENT ASSIGNEE:
  M.C.C. Nederland B.V., (481330), Wattstraat 3, NL-2691 GZ 's-Gravenzande
    , (NL), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)
INVENTOR:
  Wallaart, Jacobus Johannes, Esdoornstraat 41, NL-2691 VG 's-Gravenzande,
    (NL)
LEGAL REPRESENTATIVE:
  Smulders, Theodorus A.H.J. et al (21191), Vereenigde Octrooibureaux
    Nieuwe Parklaan 107, NL-2587 BP 's-Gravenhage, (NL)
PATENT (CC, No, Kind, Date): EP 159074 A1 EP 159074 B1
                                             851023 (Basic)
APPLICATION (CC, No, Date):
                               EP 85200455 850322;
PRIORITY (CC, No, Date): DE 8408857 840322
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## ABSTRACT EP 159074 A1

Magnetic bend segment for a chain conveyor.

INTERNATIONAL PATENT CLASS: B65G-021/20;

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE

A bend segment for a chain conveyor, including a chain movable over a track including one or more bends. The chain is composed of interconnected links (4) of magnetizable material having a substantially rectangular load bearing surface. The bend segment (1-3) is an integral element, U-shaped in cross-section, with an under surface formed with elongate pockets, extending into the legs (2, 3) of the element and extending in the longitudinal direction of the bend segment. The pockets are arranged to receive magnets (7) provided to keep the chain flat in a bend of the track. The under surface of the element is provided with means (8-10) for confining the magnets in the pockets. ABSTRACT WORD COUNT: 122

CITED PATENTS (EP A): GB 2037690 A; DE 1556183 B; GB 1115252 A; US 3964800

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LEGAL STATUS (Type, Pub Date, Kind, Text):
```

Application: 851023 Al Published application (Alwith Search Report ;A2without Search Report)

Examination: 860604 Al Date of filing of request for examination:

860327

Examination: 861029 Al Date of despatch of first examination report:

860911

870624 B1 Granted patent Grant:

Oppn: 880518 B1 Opposition 01/880324 Knauer, Josef, Dipl.-Ing.;

Lerchenweg 2; D-8042 Oberschleissheim; (DE) (Representative:) Beszedes, Stephan G. Dr.; Munchener Strasse 80a Postfach 1168; D-8060

Dachau; (DE)

\*Oppn: 880824 B1 Opposition (change) 01/880324 Knauer, Josef,

Dipl.-Ing.; Lerchenweg 2; D-8042

Oberschleissheim; (DE)

(Representative:) Zinnecker, Armin, Dipl.-Ing.;

Rechtsanwalte Eduard Lorenz - Dipl.-Ing. Hans-K. Gossel Dr. Ina Philipps - Dr. Paul B. Schauble Dr. Siegfried Jackermeier Dipl.-Ing. Armin Zinnecker; Widenmayerstrasse 23 D-8000

Munchen 22; (DE)

Change: 890419 B1 Representative (change)

Oppn Ended: 900613 B1 Termination of opposition procedure: 890921 LANGUAGE (Publication, Procedural, Application): English; English; English

Patent Assignee: MCC NEDERLAND (NL)

Author (Inventor): WALLAART JACOBUS JOHANNES

Page 1 of 7

DialogClassic Web(tm) Page 2 of 7

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Priority (No, Kind, Date): DE 848857 U
                                             19840322
   Applic (No, Kind, Date): EP 85200455 A
  : IPC: * B65G-021/20
   Derwent WPI Acc No: * G 85-265052
Language of Document: English; French; German
 Patent (No, Kind, Date): DE 8408857 U1 19840719
   KETTENFOERDERER (German)
   Patent Assignee: PELLIKAAN BRIGITTE JACOBA ANNA
   Priority (No, Kind, Date): DE 848857 U 19840322
   Applic (No, Kind, Date): DE 848857 U
   IPC: * B65G-021/16
   Language of Document: German
GERMANY (DE)
 Legal Status (No, Type, Date, Code, Text):
    DE 3560281
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                         19870730 DE REF
                                                CORRESPONDS TO
                              (ENTSPRICHT)
                              EP 159074 P
                                             19870730
   DE 3560281
                        19880623 DE 8363
                                               OPPOSITION AGAINST THE
                              PATENT (EINSPRUCH GEGEN DAS PATENT ERHOBEN)
   DE 3560281
                        19910214 DE 8310
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                              ANNULMENT (KLAGE AUF ERKLAERUNG DER
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   DE 3560281
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                        19911017 DE 8313
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    DE 3560281
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                        19911114 DE 8315
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    DE 3560281
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                        19920723 DE 8318
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                        19970130 DE 8312
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                               (TEILWEISE FUER NICHTIG ERKLAERT)
DENMARK (DK)
  Patent (No, Kind, Date): DK 8501277 A
    BUESTYKKE TIL KAEDETRANSPORTOER (Danish)
    Patent Assignee: MCC NEDERLAND
                                     (NL)
    Author (Inventor): WALLAART JACOBUS JOHANNES
    Priority (No, Kind, Date): DE 848857 U
                                             19840322
    Applic (No, Kind, Date): DK 851277 A
    IPC: * B65G
    Language of Document: Danish
  Patent (No, Kind, Date): DK 8501277 A0 19850321
    BUESTYKKE TIL KAEDETRANSPORTOER (Danish)
    Patent Assignee: MCC NEDERLAND
                                     (NL)
    Author (Inventor): JOHANNES WALLAART JACOBUS
    Priority (No, Kind, Date): DE 848857 U 19840322
    Applic (No, Kind, Date): DK 851277 A
    IPC: * B65G
    Language of Document: Danish
  Patent (No, Kind, Date): DK 159618 B
    BUESTYKKE TIL KAEDETRANSPORTOER (Danish)
    Patent Assignee: MCC NEDERLAND
    Author (Inventor): WALLAART JACOBUS JOHANNES
    Priority (No, Kind, Date): DE 848857 U
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DialogClassic Web(tm) Page 3 of 7

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Applic (No, Kind, Date): DK 851277 A
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   IPC: * B65G-021/20; B65G-017/06
  : Derwent WPI Acc No: * G 85-265052
   Language of Document: Danish
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   Patent Assignee: MCC NEDERLAND
                                     (NL)
   Author (Inventor): WALLAART JACOBUS JOHANNES
   Priority (No, Kind, Date): DE 848857 U
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   Applic (No, Kind, Date): DK 851277 A
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    IPC: * B65G-021/20; B65G-017/06
   Derwent WPI Acc No: * G 85-265052
   Language of Document: Danish
DENMARK (DK)
 Legal Status (No, Type, Date, Code, Text):
     DK 851277
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                                                 PRIORITY OF APPLIATION
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                                                           (PRIORITY OF THE
                              APPL. (UTILITY MODEL))
                              DE 848857 U
                                              19840322
   DK 851277.
                        19850321 DK AEA
                                                DATA OF DOMESTIC APPL.
                              DK 851277 A
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   DK 851277
                        19850923 DK A
                    А
                                                PUBLISHED APPLICATION
    DK 851277
                    А
                        19901105 DK AGA
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                              DK 159618 B
                                              19901105
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                        19901105
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                               PUBLIC EXAMINATION
                                                   (APPL. PUBLISHED FOR
                               PUBLIC EXAMINATION)
    DK 159618
                        19910429 DK C
                                                PATENT GRANTED
EUROPEAN PATENT OFFICE (EP)
  Patent (No, Kind, Date): EP 159074 A1 19851023
    MAGNETIC BEND SEGMENT FOR A CHAIN CONVEYOR (English)
    Patent Assignee: MCC NEDERLAND
                                     (NL)
    Author (Inventor): WALLAART JACOBUS JOHANNES
    Priority (No, Kind, Date): DE 848857 U
Applic (No, Kind, Date): EP 85200455 A
                                              19840322
                                              19850322
    Designated States: (National) AT; BE; CH; DE; FR; GB; IT; LI; LU; NL;
      SE
    IPC: * B65G-021/20
    Derwent WPI Acc No: * G 85-265052
    Language of Document: English
  Patent (No, Kind, Date): EP 159074
                                    B1 19870624
    MAGNETIC BEND SEGMENT FOR A CHAIN CONVEYOR (English)
    Patent Assignee: MCC NEDERLAND (NL)
    Author (Inventor): WALLAART JACOBUS JOHANNES
    Priority (No, Kind, Date): DE 848857 U
    Applic (No, Kind, Date): EP 85200455 A
                                              19850322
    Designated States: (National) AT; BE; CH; DE; FR; GB; IT; LI; LU; NL;
      SE
    IPC: * B65G-021/20
    Language of Document:
                           English
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EUROPEAN PATENT	r office	(EP)
Legal Status	(No, Type	,Date,Code,Text):
EP 159074		
		UTILITY MODEL) (PRIORITAET
		(GEBRAUCHSMUSTERANMELDUNG))
		DB 848857 U 19840322
BP 159074	P	19850322 EP AE EP-APPLICATION
		(EUROPAEISCHE ANMELDUNG)
		EP 85200455 A 19850322
EP 159074	P	19851023 EP AK DESIGNATED CONTRACTING
		STATES (BENANNTE VERTRAGSSTAATEN)
EP 159074	₽	19851023 EP A1 PUBLICATION OF APPLICATION
,		WITH SEARCH REPORT (VEROEFFENTLICHUNG DER
		ANMELDUNG MIT RECHERCHENBERICHT)
EP 159074	P	19860604 EP 17P REQUEST FOR EXAMINATION
	_	FILED (PRUEFUNGSANTRAG GESTELLT)
EP 159074	P	19861029 EP 170 FIRST EXAMINATION REPORT
	-	(ERSTER PRUEFUNGSBESCHEID)
EP 159074	P	19870624 EP AK DESIGNATED CONTRACTING
21 2330.1	•	STATES MENTIONED IN A PATENT SPECIFICATION
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EP 159074	P	19870624 EP B1 PATENT SPECIFICATION
. 21 133074	-	(PATENTSCHRIFT)
EP 159074	P	19870624 EP REF IN AUSTRIA REGISTERED AS:
EL 133074	•	(IN AT EINGETRAGEN ALS:)
		AT 27945 R 19870715
EP 159074	P	19870626 EP ITF IT: TRANSLATION FOR A EP
EF 133074	F	PATENT FILED (IT: DEPOSITO TRADUZIONE DI
		BREVETTO EUROPEO)
		STUDIO CONS. BREVETTUALE S.R.L.
EP 159074	P	19870730 EP REF CORRESPONDS TO:
BE 133074	£	(ENTSPRICHT)
		DE 3560281 P 19870730
EP 159074	P	19870731 EP ET FR: TRANSLATION FILED (FR:
11 133074	r.	TRADUCTION A ETE REMISE)
EP 159074	P	· · · · · · · · · · · · · · · · · · ·
BE 133074	r	EINGELEGT)
•		
		DATE: 19880324; OPPONENT: KNAUER, JOSEF,
		DIPLING. ; DATE: 19880324 ; KNAUER, JOSEF, DIPLING.
EP 159074		
EP 1590/4	P	
		FILED WITH THE EPO (NL: EUROPESE OCTROOIEN,
		WAARTEGEN OPPOSITIE IS INGESTELD)
		OPPONENT: KNAUER, JOSEF, DIPL ING. ;
ED 150074	_	KNAUER, JOSEF, DIPL ING.
EP 1590/4	Р	19880824 EP R26 OPPOSITION FILED
		(CORRECTION) (EINSPRUCH EINGELEGT (KORR.))
		DATE: 19880324; OPPONENT: KNAUER, JOSEF,
		DIPLING.; DATE: 19880324; KNAUER, JOSEF,
ED 150074	_	DIPLING.
EP 1590/4	. Р	19900613 EP 27C TERMINATION OF OPPOSITION
		PROCEDURE (EINSTELLUNG DES
		EINSPRUCHSVERFAHRENS)
ED 150074	<b>D</b>	890921
EF 1330/4	r	19910331 EP ITTA IT: LAST PAID ANNUAL FEE (IT: TASSA ANNUALE ULTIMO PAGAMENTO)
ED 150074	ъ	19940331 EP EPTA LU: LAST PAID ANNUAL FEE
Di 1370/4	E	(LU: DERNIER PAYEMENT D'UNE TAXE ANNUELE)
EP 159074	ס	19950131 EP EAL SE: EUROPEAN PATENT IN FORCE
22 2330/4	£	IN SWEDEN (SE: EUROPEISKT PATENT GAELLANDE I
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		85200455.5

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DialogClassic Web(tm)
                                                                                         Page 5 of 7
    EP 159074
                        20020101 GB IF02/REG EUROPEAN PATENT IN FORCE AS
                              OF 2002-01-01
                    Ρ
                        20050413 GB PE20/REG PATENT EXPIRED AFTER
  · EP 159074
                              TERMINATION OF 20 YEARS
                                              PATENT CEASED
   EP 159074
                    P
                       20050429 CH PL/REG
                               (LOESCHUNG/RADIATION/RADIAZION)
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                        20050503 EP EUG
                                               SE: EUROPEAN PATENT HAS
                              LAPSED (SE: EUROPEISKT PATENT HAR UPPHOERT
                              ATT GAELLA)
                              FIL APPL ID: EP1985 85200455A
JAPAN (JP)
  Patent (No, Kind, Date): JP 61007124 A2 19860113
    MAGNETIC BENDING SEGMENT FOR CHAIN CONVEYOR (English)
    Patent Assignee: EMU SHII SHII NEDAARANDO BV
    Author (Inventor): YAKOBUSU YOHANESU WARAATO
   Priority (No,Kind,Date): DE 848857 U
Applic (No,Kind,Date): JP 8555767 A
                                             19850322
    IPC: * B65G-021/20; B65G-017/08; B65G-021/16
    Language of Document: Japanese
  Patent (No, Kind, Date): JP 93085450 B4 19931207
    Patent Assignee: EMU SHII SHII NEEDERU BV
    Author (Inventor): YAKOBUSU YOHANESU WARAATO
    Priority (No, Kind, Date): DE 848857 U 19840322
   Applic (No, Kind, Date): JP 8555767 A 19850322
    IPC: * B65G-021/22; B65G-017/08; B65G-017/38; B65G-017/40
    Language of Document: Japanese
KOREA, REPUBLIC (KR)
  Patent (No, Kind, Date): KR 9305861 B1 19930625
    MAGNETIC BEND SEGMENT FOR A CHAIN CONVEYOR (English)
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Patent (No, Kind, Date): KR 9305861 B1 19930625

MAGNETIC BEND SEGMENT FOR A CHAIN CONVEYOR (English Patent Assignee: M C C NETHERLANDS B V (NL)

Author (Inventor): WALLAART JACOBS J (NL)

Priority (No, Kind, Date): DE 848857 U 19840322

Applic (No, Kind, Date): KR 851835 A 19850321

IPC: \* B65G-021/20

Derwent WPI Acc No: \* G 85-265052

Language of Document: Korean

## UNITED STATES OF AMERICA (US)

Patent (No, Kind, Date): US 4643298 A 19870217

MAGNETIC BEND SEGMENT FOR A CHAIN CONVEYOR (English)
Patent Assignee: MCC NEDERLAND (NL)
Author (Inventor): WALLAART JACOBUS J (NL)
Priority (No, Kind, Date): DE 848857 U 19840322
Applic (No, Kind, Date): US 714232 A 19850321
National Class: \* 198805000; 198690100
IPC: \* B65G-023/18
Language of Document: English

## UNITED STATES OF AMERICA (US)

Legal Status (No, Type, Date, Code, Text): US 4643298 P 19840322 US AA PRIORITY (UTILITY MODEL) DE 848857 U 19840322 19850321 US AE US 714232 A US 4643298 APPL. DATA (PATENT) P 19850321 US 4643298 19850612 US AS02 Р ASSIGNMENT OF ASSIGNOR'S INTEREST M.C.C. NEDERLAND B.V. WATTSTRAAT 3, 2691 GZ 'S-GRAVENZANDE, THE NETHERLANDS A CO; WALLAART, JACOBUS J.: 19850321 US 4643298 P 19870217 US A PATENT

## SOUTH AFRICA (ZA)

Patent (No, Kind, Date): ZA 8502091 A 19851127

MAGNETIC BEND SEGMENT FOR A CHAIN CONVEYOR (English)

. Patent Assignee: MCC NEDERLAND

Author (Inventor): WALLAART JACOBUS JOHANNES
Priority (No, Kind, Date): DE 848857 U 19840322
Applic (No, Kind, Date): ZA 852091 A 19850320

IPC: \* B65G

Derwent WPI Acc No: \* G 85-265052

Language of Document: English

3/19/2 (Item 1 from file: 351)

DIALOG(R) File 351: Derwent WPI

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004438174

WPI Acc No: 1985-265052/198543

XRPX Acc No: N85-197958

Magnetic bend segment for chain conveyor - has pockets within bend segments receiving magnets to maintain chain flat while traversing curve Patent Assignee: MCC NED BV (MCCN-N); MCC NETHERLANDS BV (MCCN-N)

Inventor: WALLAART J J

Number of Countries: 017 . Number of Patents: 009

Patent Family:

F	atent No	Kind	Date	Applicat No	Kind	Date	Week	
E	P 159074	A	19851023	EP 85200455	Α	19850322	198543	В
P	U 8540270	A	19850926				198546	
Z	A 8502091	A	19850924				198602	
Ι	K 8501277	A	19850923				198604	
U	IS 4643298	A	19870217	US 85714232	Α	19850321	198709	
C	A 1219832	A	19870331				198717	
E	P 159074	В	19870624				198725	
Ι	E 3560281	G	19870730				198731	
F	R 9305861	B1	19930625	KR 851835	A	19850321	199425	

Priority Applications (No Type Date): DE 84U8857 U 19840322 Cited Patents: DE 1556183; GB 1115252; GB 2037690; US 3964800 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 159074 A E 11

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE EP 159074 B E

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE KR 9305861 B1 B65G-021/20

Abstract (Basic): EP 159074 A

The chain comprises links (4) of magnetisable material, with a rectangular load bearing surface. Successive links are pivoted together, with magnets provided in the bend segments of the links. The bend segment (1-3) is an integral element of U-section.

The undersurface of the U-element is formed with elongate pockets extending into the legs of the elements and running longitudinally of the bend segment. These pockets receive the magnets (7) with slots receiving a flat closure strip (10) to retain the magnet in each slot. The bend segment is pref. a synthetic plastics.

USE - Chain conveyor utilising magnets to keep conveyor links flat on bends, without incurring wear.

2/4

Abstract (Equivalent): EP 159074 B

A bend segment for a chain conveyor, including a chain movable over a track including one or more bends, said chain being composed of links (4) of magnetisable material having a substantially rectangular load bearing surface, the successive links in the chain being pivoted together, and magnets (7) being provided in the bend segment which is

U-shaped in cross-section, characterised in that the bend segment is an integral element, the under surface of the U-shaped element being formed with elongate pockets (13), extending into the legs (2,3) of the element and extending in the longitudinal direction of the bend segment, said pockets (13) being arranged to receive the magnets (7), the under surface of the element being further provided with means (9,10) for confining the magnets in said pockets. (5pp)

Abstract (Equivalent): US 4643298 A

The chain conveyor bend segment includes a chain movable over a track including one or more bends. The chain is composed of interconnected links of magnetisable material having a substantially rectangular load bearing surface. The bend segment is an integral element, U-shaped in cross-section, with an under surface formed with elongate pockets.

The pockets extend into the legs of the element and extend in the longitudinal direction of the bend segment. The pockets are arranged to receive magnets provided to keep the chain flat in a bend of the track. (4pp) u

Title Terms: MAGNETIC; BEND; SEGMENT; CHAIN; CONVEYOR; POCKET; BEND; SEGMENT; RECEIVE; MAGNET; MAINTAIN; CHAIN; FLAT; TRAVERSE; CURVE

Derwent Class: Q35

International Patent Class (Main): B65G-021/20

International Patent Class (Additional): B65G-015/00; B65G-017/48;

B65G-023/18

File Segment: EngPI